

WIDEBAND ARRAYED WAVEGUIDE GRATING

Abstract of the Disclosure

A flat-top arrayed waveguide grating with wideband transmission spectrum may be produced by integrating a series of directional couplers to the output slab waveguide
5 coupler of a dual channel-spacing arrayed waveguide grating having Gaussian spectral profile. The primary channel spacing of the Gaussian arrayed waveguide grating determines the spectral width of the resultant wideband device, whereas the secondary channel spacing determines
10 the wavelength separation between the adjacent output channels. In such a structure, a wideband or flat transmission spectral profile may be achieved without excessive losses.